Nicholas Freeman Mehrle

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Education

Johns Hopkins University **Baltimore, MD**
M.A. Physics and Astronomy May 2016
B.S. Physics May 2016
– **Additional Majors:** Mathematics & Applied Mathematics and Statistics
– **GPA:** 3.91/4.0

Employment & Research

Optiver US LLC **Chicago, Il**
Derivatives Trader July 2016 - September 2016
– Worked as high frequency options market maker
– Performed time series analysis of market data

Johns Hopkins University **Batimore, MD**
Research Assistant - Department of Physics and Astronomy May 2013 - May 2016
– Constructed variable delay polarization modulator for microwave band telescope
– Wrote master's thesis on telescope design and physics of Cosmic Microwave Background

CERN **Geneva, Switzerland**
Research Assistant - CMS Experiment Jan - May 2015
– Performed statistical analysis to discriminate production methods of Higgs boson
– Contributed to statistical software package used on the CMS experiment

Johns Hopkins University Applied Physics Lab **Laurel, MD**
Technical Intern - Applied Concepts and Technology Group May - Aug 2014
– Developed and tested of feature estimation algorithms
– Improved graphical UI of large scale simulation environment

Johns Hopkins University **Baltimore, MD**
Teaching Assistant - Department of Mathematics Sept - Dec 2015
– Taught recitation section for Differential Equations

Papers

– *CLASS: The Cosmology Large Angular Scale Surveyor*. With Thomas Essinger-Hileman et al. arXiv reference: 1408.4788.
– *The Cosmology Large Angular Scale Surveyor (CLASS): 38 GHz detector array of bolometric polarimeters*. With John W. Appel et al. arXiv reference: 1408.4789.

Miscellaneous

Computer Skills: Python, Java, JavaScript, C, C++, Matlab, Mathematica, R, HTML CSS, LaTeX, SolidWorks, VBA
Organizations: Phi Beta Kappa, Sigma Pi Sigma, Johns Hopkins Mock Trial, Wading Team
Testing: Physics GRE - 960/990 (92nd percentile)
General GRE - 165 Verbal, 169 Quantitative, 5.5 Writing